| Index of Claims |  |
|-----------------|--|
|                 |  |
|                 |  |

| Application No.          | Applicant(s)    |
|--------------------------|-----------------|
| 09/518,808               | KAWAMOTO ET AL. |
| Examiner                 | Art Unit        |
| George C. Neurauter, Jr. | 2143            |

| R | Rejected |
|---|----------|
| 1 | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  | A | Appeal   |
|---|--------------|---|----------|
| 1 | Interference | 0 | Objected |

|          |          |          |  |              |              |          |                 |   |              |              | _  |                        |          |          |          |          | _             |          |          |          |              |          | ,     |       |
|----------|----------|----------|--|--------------|--------------|----------|-----------------|---|--------------|--------------|----|------------------------|----------|----------|----------|----------|---------------|----------|----------|----------|--------------|----------|-------|-------|
| Cla      | aim      |          |  |              |              | Dat      | <u>e</u>        |   |              |              |    | Cla                    | aim      |          |          |          | {             | Date     | <u>e</u> |          |              |          |       | CI    |
| Final    | Original |          |  |              |              |          | 11/1/04         |   |              |              |    | Final                  | Original |          |          |          |               | -        |          |          |              |          |       | Final |
|          | 1        |          |  |              |              |          | R               | Γ |              |              | 1  |                        | 51       |          |          |          |               |          |          |          |              |          |       |       |
|          | 2        |          | Г  |              |              |          |                 |   |              |              | 1  |                        | 52       |          |          |          |               |          |          | 1        | _            | Π        |       |       |
|          | 3 4      | Г        |  |              | İ            |          | R               |   | ŀ            |              | 1  |                        | 53       |          |          |          |               |          | Г        |          | 1            |          |       |       |
|          | 4        |          |  |              |              | Ì        | 1               |   |              | 1            | 1  |                        | 54       |          |          |          |               |          |          |          |              |          |       |       |
|          | 5        |          |  | 1            | T            |          |                 |   | T            | Т            | 1  |                        | 55       |          |          |          |               |          |          |          |              |          |       |       |
|          | 6        |          |  |              | t            | T        | T               |   | T            | Т            | 1  |                        | 56       |          |          |          |               |          |          |          |              | _        |       |       |
|          | 7        |          |  |              | T            | T        |                 | - | İ            | T            | 1. |                        | 57       |          | _        |          |               |          |          |          |              |          |       |       |
|          | 8        |          |  |              | 1            |          | İ               |   |              | T            | 1  |                        | 58       |          |          |          |               |          |          | $\vdash$ |              |          | speak |       |
|          | 9        |          |  |              | t            | 1        |                 |   |              | Г            | 1  |                        | 59       |          |          |          |               |          |          |          |              | _        |       |       |
|          | 10       | _        |  | $\vdash$     | T            | _        | $\vdash$        |   |              |              | 1  |                        | 60       |          | П        |          |               |          |          | Г        |              |          | 1     |       |
|          | 11       | $\vdash$ | ┪  | <del> </del> |              | T        | $\vdash$        |   | Т            | T            | 1  |                        | 61       | _        |          |          |               |          |          |          |              |          | i     |       |
|          | 12       |          |  | _            | T            | T        |                 |   | _            | T            | 1  |                        | 62       |          |          |          |               |          |          |          |              |          |       |       |
|          | 13       |          |  |              |              | 1        |                 |   | Г            | $\vdash$     | 1  |                        | 63       |          |          |          |               |          |          | -        |              |          | ıi    |       |
| -        | 14       |          |  | Г            | _            |          | $\vdash$        |   | $\vdash$     | <del> </del> | 1  |                        | 64       |          |          |          |               |          |          |          |              |          |       |       |
|          | 15       | -        | T  |              |              | t        | <u> </u>        | _ |              |              | 1  |                        | 65       |          |          |          |               |          |          |          |              |          |       |       |
|          | 16       |          |  |              | $\vdash$     | <u> </u> | 一               |   |              | $\vdash$     | 1  |                        | 66       |          |          | _        |               |          |          |          |              |          |       |       |
|          | 17       |          |  |              | t            | ┢        | _               |   | $\vdash$     | $\vdash$     | 1  | -                      | 67       |          |          |          | $\overline{}$ |          |          |          |              |          | Ιl    |       |
|          | 18       | $\vdash$ | <del>                                     </del> | 1            | t            | T        | <b>—</b>        |   | ┢            |              | 1  | -                      | 68       |          |          |          |               |          |          |          |              |          | 1     |       |
|          | 19       | -        | $\vdash$   |              | $\vdash$     | -        |                 | _ | $\vdash$     | $\vdash$     | 1  |                        | 69       |          |          |          |               |          |          | $\vdash$ | <del> </del> | _        |       |       |
|          | 20       | _        | -  | -            | ┢            |          |                 |   | <u> </u>     | <u> </u>     | 1. |                        | 70       | -        |          |          |               | $\neg$   | _        | ╁╴       | Н            | _        |       |       |
|          | 21       |          | $\vdash$   | $\vdash$     | <u> </u>     | -        | -               |   | $\vdash$     |              | 1  |                        | 71       |          |          |          | _             | $\neg$   | _        | H        |              | _        |       |       |
|          | 22       |          | -  | -            | ╁            | $\vdash$ | $\vdash$        |   |              | -            | ┨  | H                      | 72       | -        | -        |          |               |          |          |          | -            | _        |       |       |
|          | 23       | -        | ⊢  | $\vdash$     | ┢            | $\vdash$ | -               |   | $\vdash$     | <del> </del> | ┨  | $\vdash$               | 73       | $\dashv$ |          | _        | $\dashv$      | =        |          | -        |              |          |       |       |
|          | 24       | -        | ⊢  | -            | ┢            | H        | _               |   | -            |              | ł  | -                      | 74       | -        | -        |          | -             | $\dashv$ |          | -        |              | _        |       |       |
|          | 25       | _        | ⊢  | -            | ┢            | ⊢        |                 |   |              | -            | -  |                        | 75       | $\dashv$ |          | _        |               | $\dashv$ |          | $\vdash$ | $\vdash$     |          |       |       |
|          | 26       | -        | -  |              | $\vdash$     |          |                 | _ |              | $\vdash$     | 1  | $\vdash$               | 75<br>76 |          |          | _        | =             | $\dashv$ |          |          | $\vdash$     | -        |       |       |
|          | 27       |          |  | ┢            | -            | -        | -               |   | ┢            | ┢            | ł  | -                      | 77       |          | -        |          | _             | =        |          | H        | -            |          |       |       |
|          | 28       | —        |  | -            | ┢            | -        | H               |   | $\vdash$     | $\vdash$     | 1. |                        | 78       |          | $\dashv$ |          | _             | $\dashv$ | _        | -        | Н            |          | ١٠,   | -     |
|          | 29       |          |  | ┝            | ⊢            | $\vdash$ | $\vdash$        |   | ┢            | -            | ł  |                        | 78<br>79 | -        | $\dashv$ |          | -             | -        |          | $\vdash$ |              |          |       |       |
|          | 30       |          |  |              | ⊢            | $\vdash$ | $\vdash$        |   | -            | -            | ł  |                        | 80       |          | -        |          |               |          |          |          |              |          |       |       |
| -        | 31       |          |  | $\vdash$     | ┢            | -        |                 |   | ┝            | -            | ł  | H                      | 81       |          | -        | -        | $\dashv$      |          |          | -        | Н            |          | 1     |       |
|          | 32       |          |  | -            | ⊢            | $\vdash$ | $\vdash$        |   | $\vdash$     | -            | 1  | $\vdash$               | 82       | $\dashv$ | -        | -        | -             | $\dashv$ | _        | $\vdash$ | -            |          |       |       |
| _        | 33       |          |  |              | ┢            | ├─       | ⊢               |   | ┝            | ⊢            | ┨  |                        | 83       |          | $\dashv$ |          |               |          |          |          |              |          |       |       |
|          | 34       | _        | -  | $\vdash$     | $\vdash$     | $\vdash$ |                 | _ | $\vdash$     | -            | ١. |                        | 84       |          | -+       |          |               | -        |          |          |              |          |       |       |
|          | 35       |          | _  | -            | ⊢            | -        |                 |   | _            | ┝            |    | $\vdash$               | 85       | -        | $\dashv$ |          |               |          |          | $\vdash$ | Н            |          | ·     |       |
| -        | 36       |          | _  |              | $\vdash$     | -        | Н               | _ | $\vdash$     | ⊢            | ł  | $\vdash\vdash\vdash$   | 86       |          | $\dashv$ |          | -             | $\dashv$ |          | -        |              |          |       |       |
|          | 37       | -        | —  | $\vdash$     | $\vdash$     | $\vdash$ | Н               |   | <del> </del> | ├            | 1  | $\vdash\vdash\vdash$   | 87       |          | ┵        |          | $\dashv$      | $\dashv$ |          | $\vdash$ | $\vdash$     |          |       |       |
| $\dashv$ | 38       |          |  | $\vdash$     | $\vdash$     | $\vdash$ | Н               | _ | -            | -            | ł  | $\vdash \vdash \vdash$ | 88       | $\dashv$ | -        |          | $\dashv$      | $\dashv$ |          | $\vdash$ | $\dashv$     | Н        | ŀ     |       |
|          | 39       |          | <u> </u>   |              | ┢            | -        | Н               |   | <u> —</u>    | ├            |    | <del>  </del>          | 89       | $\dashv$ | -        | -        | $\dashv$      |          |          | Н        | $\dashv$     |          | ŀŀ    |       |
|          | 40       |          |  |              | H            | Н        | $\dashv$        |   |              | $\vdash$     | -  | $\vdash$               | 90       | $\dashv$ | $\dashv$ |          | $\dashv$      | $\dashv$ |          | -        |              |          |       |       |
|          | 41       |          |  | <u> </u>     | -            | Н        | Н               | _ | -            | $\vdash$     | ł  | <del>  </del>          | 91       |          | $\dashv$ | -        |               |          |          | $\vdash$ | $\vdash$     |          | .     | -     |
|          | 42       |          |  | H            | $\vdash$     | Н        | $\vdash$        |   | <u> </u>     | $\vdash$     | ł  | $\vdash\vdash\vdash$   | 92       | $\dashv$ |          | $\dashv$ | $\dashv$      | $\dashv$ |          | Н        |              | -        | . }   |       |
| -        | 43       | $\dashv$ | -  | -            | $\vdash$     | Н        | Н               |   | $\vdash$     |              | ł  | ┝─┤                    | 93       | $\dashv$ |          | $\dashv$ | $\dashv$      |          |          | H        | $\vdash$     |          | . }   |       |
|          | 44       | $\dashv$ | -  | $\vdash$     | <del> </del> | Н        | Н               | - | -            | $\vdash$     | 1  | $\vdash \vdash \vdash$ | 94       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | -        | -        | H        |              | _        |       |       |
|          | 45       | _        |  | $\vdash$     |              | Н        | $\vdash$        |   | -            |              | 1  | $\vdash \vdash \vdash$ | 95       | $\dashv$ |          | $\dashv$ | -             | $\dashv$ | $\dashv$ | $\vdash$ | -            | $\dashv$ | , }   | _     |
|          | 46       | -        |  |              |              |          | $\vdash$        | _ | _            | —            |    | $\vdash \vdash \vdash$ | 96       | $\dashv$ | -1       |          |               | $\dashv$ |          | $\vdash$ |              | -        | ŀ     |       |
| $\dashv$ | 47       | _        |  | <del> </del> |              | H        | $\dashv$        | - |              | -            |    | $\vdash \vdash \vdash$ | 97       | $\dashv$ |          |          | -             | $\dashv$ | -        | $\vdash$ | $\dashv$     | -        | , H   |       |
|          | 48       | -        |  |              |              | H        | $\vdash$        | - |              | -            | 1  | $\vdash \vdash \vdash$ | 98       | $\dashv$ |          | $\dashv$ |               | $\dashv$ | $\dashv$ | $\vdash$ | $\vdash$     | -        | , · } |       |
|          | 49       |          |  |              | $\vdash$     | $\vdash$ | -               |   |              |              |    | $\vdash \vdash \vdash$ | 99       | $\dashv$ |          | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ | Н        |              |          |       |       |
|          | 50       | -        | $\vdash$   | $\vdash$     |              | $\vdash$ | $\vdash \vdash$ |   |              | <u> </u>     | l  | $\vdash$               | 100      | -        | $\dashv$ | -        |               |          |          |          | $\vdash$     | $\dashv$ | .     |       |
|          | 30       |          |  | L .          | L            |          |                 |   |              | Ц            | J  | L                      | 100      |          |          |          |               | 1        |          | Ll       |              |          | L     |       |

|                        | ,<br>             |          |          |              |               |          |          |  | •        |                         |  |  |
|------------------------|-------------------|----------|----------|--------------|---------------|----------|----------|--|----------|-------------------------|--|--|
| Cl                     | aim               | Date     |          |              |               |          |          |  |          |                         |  |  |
| Final                  | Original          |          |          |              |               |          |          |  |          |                         |  |  |
|                        | 101               |          |          |              |               |          |          |  |          |                         |  |  |
|                        | 102<br>103        |          |          |              |               |          |          |  |          |                         |  |  |
|                        | 103               |          |          |              |               |          |          | $oxed{oxed}$                                     |          |                         |  |  |
|                        | 104               |          |          | _            |               |          | <u> </u> | _  |          | $oxed{oxed}$            |  |  |
|                        | 105<br>106        |          |          |              |               |          | <u> </u> | L  | _        |                         |  |  |
|                        | 106               |          | _        | _            | L             | Ļ.       | <u> </u> | <u> </u>   | <u> </u> | Щ                       |  |  |
|                        | 107               | _        |          |              | ⊢             | _        |          | ⊢  | ├        | H                       |  |  |
| -                      | 108<br>109        | _        | -        | ⊢            |               | ┢        | -        | -  | ⊢        | $\vdash$                |  |  |
|                        | 110               | _        | -        | ├─           | $\vdash$      | -        | $\vdash$ | $\vdash$   | ┢        | Н                       |  |  |
| $\vdash$               | 111               | _        | $\vdash$ | -            |               |          | $\vdash$ | <del>                                     </del> | $\vdash$ | H                       |  |  |
|                        | 112               |          | -        |              |               | Ι-       |          | T  | $\vdash$ | Н                       |  |  |
|                        | 113               |          |          | _            |               |          |          | Γ  | Г        | М                       |  |  |
|                        | 113<br>114<br>115 |          |          |              |               |          |          |  |          |                         |  |  |
|                        | 115               |          |          |              |               |          |          |  |          |                         |  |  |
|                        | 116<br>117        |          |          |              |               |          |          | L  |          | Ш                       |  |  |
|                        | 117               |          |          |              |               |          |          | <u> </u>   |          | Ш                       |  |  |
|                        | 118<br>119        |          |          |              |               |          |          | L  |          | Щ                       |  |  |
|                        | 119               |          |          | _            | _             | L        |          |  |          |                         |  |  |
| <u> </u>               | 120               |          | _        | _            | _             | <u> </u> | _        | <u> </u>   | $\vdash$ | Н                       |  |  |
| -                      | 121<br>122<br>123 | _        |          | ⊢            | _             | -        | _        | _  | -        |                         |  |  |
| <b> </b>               | 122               |          |          | ├            | $\vdash$      |          | _        |  | H        | Н                       |  |  |
| $\vdash$               | 124               | -        | _        | $\vdash$     |               | -        | -        | -  |          | H                       |  |  |
|                        | 125               |          | _        | <del> </del> |               | -        |          | $\vdash$   |          | -                       |  |  |
|                        | 124<br>125<br>126 |          |          |              |               |          |          | _  |          |                         |  |  |
|                        | 127               |          |          |              | $\vdash$      |          |          |  |          |                         |  |  |
|                        | 127<br>128        |          |          |              |               |          |          |  |          |                         |  |  |
|                        | 129               |          |          |              |               |          |          |  |          |                         |  |  |
|                        | 129<br>130        |          |          |              |               |          |          |  |          |                         |  |  |
|                        | 131               |          |          |              | L             |          |          |  |          |                         |  |  |
|                        | 132               |          |          |              | _             |          |          |  |          | Щ                       |  |  |
|                        | 133               | $\dashv$ |          | _            | Щ             | Щ        |          | $\vdash$   |          | $\mid \rightarrow \mid$ |  |  |
| $\vdash$               | 134               | -        |          | <u> </u>     | H             | Н        | _        | -  |          | Н                       |  |  |
| <del></del>            | 135<br>136        | $\dashv$ |          | H            |               | H        |          | _  | $\vdash$ | $\vdash\vdash$          |  |  |
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|                        | 144               | _]       |          |              |               |          |          |  |          |                         |  |  |
| $\Box$                 | 145               | _[       |          |              |               | Ш        |          |  |          |                         |  |  |
| $\sqcup \sqcup$        | 146               | _        |          | Ш            |               |          |          | Ш  |          |                         |  |  |
| $\vdash \vdash$        | 147               | _        |          |              | $\sqsubseteq$ |          | _        | _  |          | $\Box$                  |  |  |
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| $\vdash$               | 149               |          | _        | -            |               | -        | _        |  |          | -                       |  |  |
| $\sqcup \sqcup$        | 150               |          |          |              | $oxed{oxed}$  |          | _        | ш  |          | $\Box$                  |  |  |